

State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

PRELIMINARY DECISION OF CATEGORICAL EXCLUSION

TO ALL INTERESTED CITIZENS, ORGANIZATIONS AND GOVERNMENT AGENCIES:

CITY OF EVANSVILLE Weinbach Lift Station Renovation Project SRF # WW 08 13 82 05

Date: March 21, 2012

Pursuant to IC 4-4-11, the State Revolving Fund (SRF) Loan Program has determined that the project described here and in Evansville's Preliminary Engineering Report received by the SRF on January 30, 2012, will have no substantial negative environmental impact. Therefore, the SRF is issuing a preliminary decision of Categorical Exclusion from the requirements of substantive environmental review.

How were environmental issues considered?

The National Environmental Policy Act (NEPA) requires agencies disbursing Federal funds to include environmental factors in the decision making process. A summary of the project is attached for your review. The SRF's preliminary review has found that the proposed project does not require the preparation of either an Environmental Assessment or an Environmental Impact Statement.

Why is additional environmental review not required?

Our environmental review has concluded that significant environmental impacts will not result from the proposed action.

How do I submit comments?

Comments can be submitted to:

Mr. Max Henschen, Senior Environmental Manager SRF Programs 317-232-8623; mhensche at ifa.in.gov

CATEGORICAL EXCLUSION

I. PROJECT IDENTIFICATION

Project Name and Address:

Weinbach Lift Station Renovation

Preliminary Engineering Report (PER)

City of Evansville

1 NW Martin Luther King Jr. Blvd., Room 104

Evansville, IN 47740-0001

SRF Project Number:

WW 08 13 82 05

Authorized Representative:

Mr. Allen Mounts, Director

Evansville Water and Sewer Utility

II. PROJECT LOCATION

Evansville is located in southeastern Vanderburgh County in southwest Indiana. The Weinbach lift station project area is located in the Evansville USGS 7.5 topographic quadrangle in Knight Township, T6S, R10W, and the southwest ½ of section 15 (see Figure 1).

III. PROJECT NEED AND PURPOSE

The Weinbach lift station was constructed in 1955 and receives flows from a 24-inch sanitary sewer and a 36-inch combined sewer which overflows into the lift station after flows reach a certain level. A 24-inch force main carries flow from the lift station to a 36-inch interceptor in Weinbach Avenue.

In 1992, the lift station was rehabilitated; the city replaced pumping equipment, piping, and valves and upgraded the screens.

This lift station has been very high maintenance and is in very poor condition. The mechanical bar screen was removed due to deterioration. Currently, only one out of three pumps is operational, so the city has been using rental pumps as backup. Another concern is that the 24-inch force main from the lift station discharges into a 36-inch gravity sewer that has an estimated capacity of 6,500 gpm. The current lift station pumps are slightly oversized, which causes the 36-inch sewer to surcharge and cause overflows. Therefore, the pumps selected for this renovation project will be designed to not exceed the capacity of the 36-inch sewer.

The proposed project includes: converting the lift station from a dry pit/wet well configuration to a triplex submersible lift station with three variable speed control pumps rated at 3,500 gpm each; constructing an exterior valve vault adjacent to the south wall of the lift station structure; performing electrical work in the electrical/generator building; and installing a new sewage

grinder, manually cleaned bar screen, bypass pumping system, flow meter and approximately 70 feet of 24-inch ductile iron force main. The project will also eliminate confined space safety issues.

During average flow conditions, the one pump will send flow via the 24-inch force main downstream to the 36-inch sewer. During peak flows, two pumps will send flows downstream; the third pump will serve as a backup. When the capacity of the downstream sewer has been reached, excess flows will be stored in the 96-inch interceptor upstream of the lift station. When the 96-inch interceptor reaches full capacity, the Oak Hill combined sewer overflow at Pigeon Creek (CSO 011) will be activated. The proposed project will not change the operation of this CSO.

Three alternatives were evaluated for the lift station renovation project including the "No Action" alternative:

The "No Action" alternative was rejected, since the lift station's deteriorated condition and operational problems would continue.

Installing a Duplex System along the West Wall – This alternative proposes installing two pumps rated at 6,500 gpm each along the west wall of the new wet well and discharging through a new valve vault located above the pumps. The valve vault would have 16-inch discharge piping, a check valve and plug valve that would connect to a new section of 24-inch force main connecting to the existing 24-inch force main. Based on cost, this alternative was rejected.

Installing a Triplex System along the South Wall - This alternative proposes installing three pumps rated at 3,500 gpm each along the south wall of the new wet well and discharging through the wall using 16-inch discharge piping. An exterior valve vault will be constructed adjacent to the south wall containing 16-inch check and plug valves that will connect a new section of 24-inch force main that ultimately will connect to an existing 24-inch force main. Based on cost, this was the selected alternative. See Figure 2.

IV. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Cost Summary

Construction Components	Costs
Mobilization/Demobilization/Bonds/Insurance	\$ 60,000
General Conditions	32,000
Mechanical	821,650
Bypass Pumping System	203,860
Demolition	153,570
Structural	414,200
Electrical Work	123,930
Heating, Ventilating and Air Conditioning	26,100

Sitework Subtotal Estimated Construction Costs Contingencies Total Estimated Construction Costs	137,200 \$1,972,510 197,251 \$ 2,169,761
Non- Construction Costs	
Engineering and Design	\$198,700
Inspection/Construction Services	103,985
Legal & Financial	30,000
Total Non-Construction Costs	\$332,685
Total Estimated Project Costs	\$ 2,502,446

B. The city will borrow approximately \$2,502,446 through a State Revolving Fund (SRF) Loan Program loan at an interest rate to be determined at loan closing.

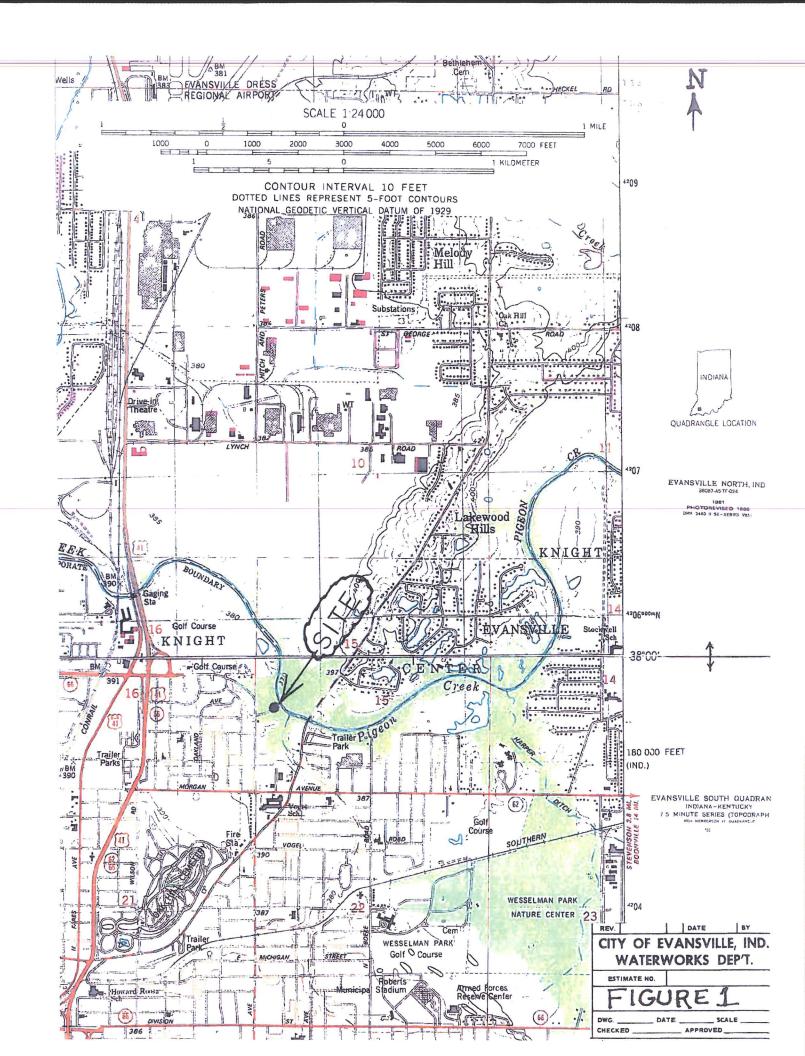
V. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

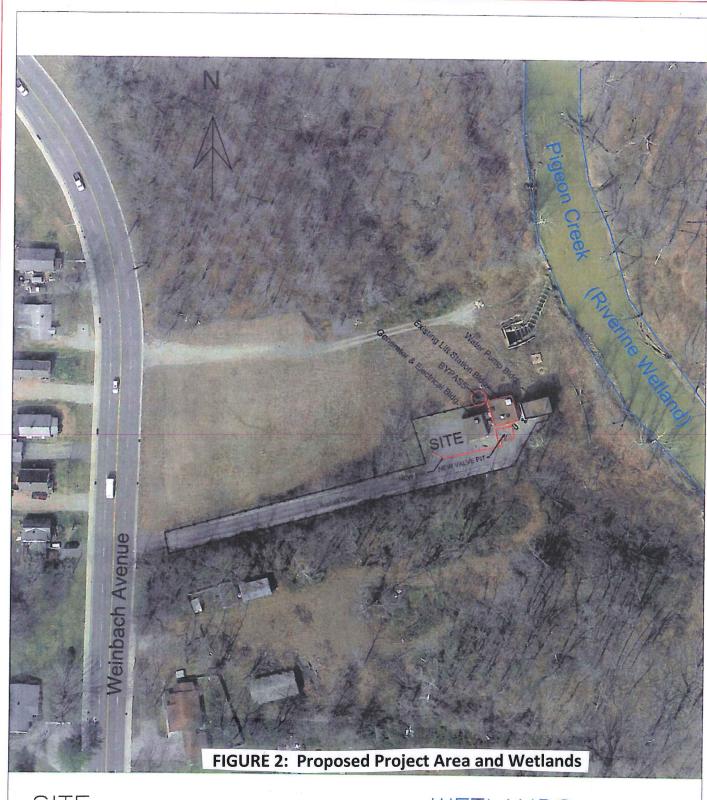
The project will affect only areas previously disturbed by construction activity. The project will not affect endangered species or their habitat, National Natural Landmarks, streams, wetlands (see Figure 2) or the 100-year floodplain (see Figure 3); the project will not need borrow soil.

Construction and operation of the project will not alter, demolish or remove historic properties (see Figure 4). If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF's finding pursuant to Section 106 of the Historic Preservation Act is: "no historic properties affected"

VI. PUBLIC PARTICIPATION

A properly noticed public hearing was held at the Evansville Water & Sewer Utility Conference Room 104 in the Civic Center on January 3, 2012, at 4:00 p.m. to discuss the Preliminary Engineering Report. No one from the public attended the hearing, and no written comments were received.



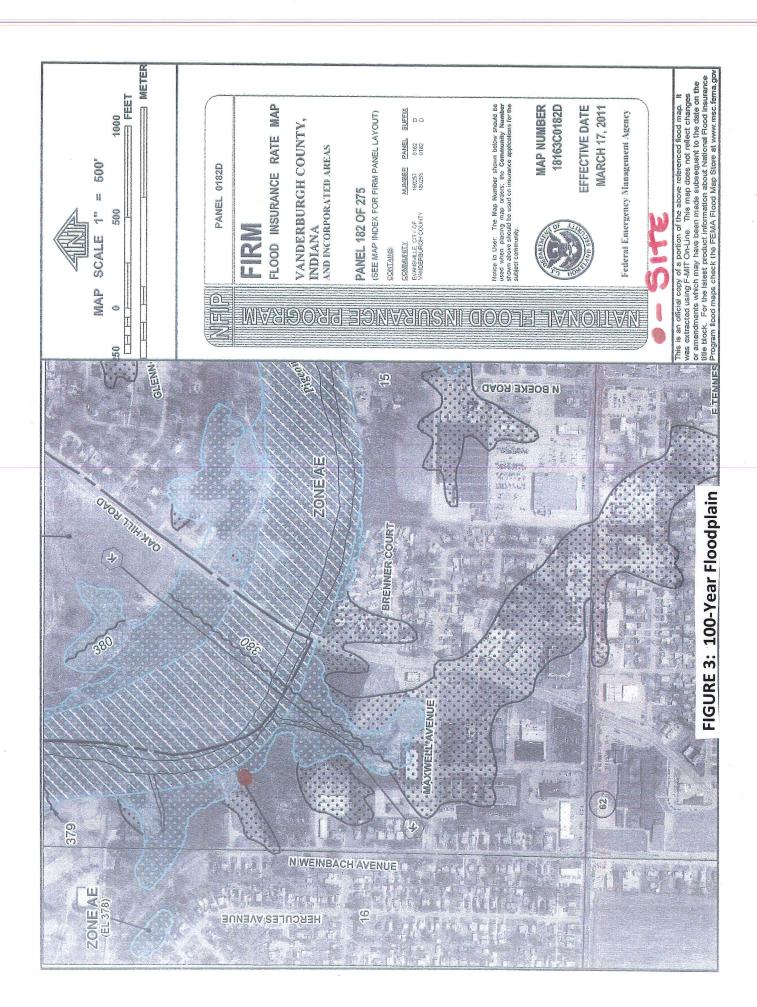


SITE CONSTRUCTION

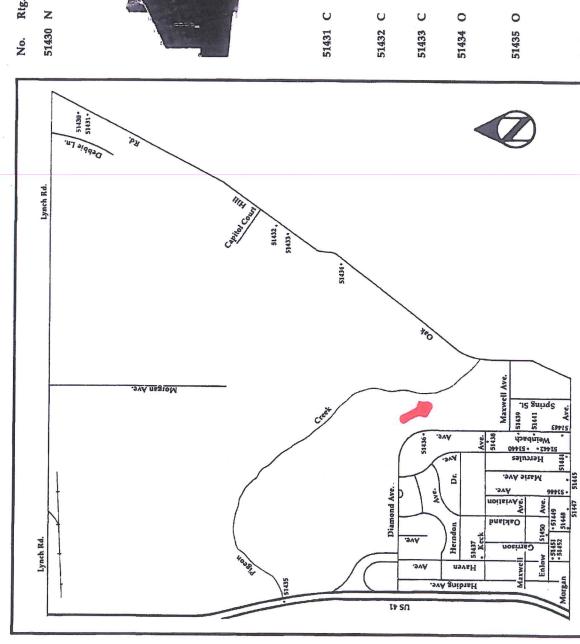
WETLANDS-

REVISED 2-13-2012

CITY OF EVANSVILLE, IN Water & Sewer Utility Weinbach Lift Station WETLAND MAP scale



Evansville Scattered Sites (51430-452)



Vo. Rtg. Description

N Lynch School, 3820 Oak Hill Road; Art Deco, 1930 (Jacob S. McCutchan; architect, Kanzler and Son, builder); Architect, Education (195)



House, 3724 Oak Hill Road;

51430

English Cottage, c.1940; Architecture (195)

51432 C House, 2910 Oak Hill Road; Bungalow, c.1925; Architecture (195)

51433 C House, 2830 Oak Hill Road; Cottage, c.1940; Architecture (195)

1434 O House, 2806 Oak Hill Road; Tudor Revival, c.1935; Architecture (195)

1435 O State Bridge, US 41; Parker through-truss, 1940; Engineering, Transportation (196)

FIGURE 4: Historic Sites from Vanderburgh Co. Interim Report Indiana Historic Sites and Structures Inventory